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APPLICATION NO.	FILING DA	TE FIRST 1	FIRST NAMED INVENTOR		CONFIRMATION NO.	
09/884,388	06/19/200	1	Xi Yuan Hua	J6662(C)	3575	
201	7590 01/11/2005			EXAMINER		
	R INTELLECTU N AVENUE,	SHARAREH, SHAHNAM J				
BLDG C2 S	,	ART UNIT	PAPER NUMBER			
ENGLEWO	OD CLIFFS, NJ	07632-3100	1617			

DATE MAILED: 01/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			Ap	plication N .	Applicant(s)				
			09	9/884,388	HUA ET AL.				
	Offic Ac	tion Summary	Ex	aminer	Art Unit				
			Sh	ahnam Sharareh	1617				
Peri df		DATE of this communic	ation appears	on the cover sheet	with the correspondence a	ddress			
THE N - Exten after: - If the - If NO - Failur Any n	MAILING DATE sions of time may be SIX (6) MONTHS from period for reply speciperiod for reply is speciper to reply within the seply received by the C	ecified above, the maximum statu	ATION. 37 CFR 1.136(a). ication. days, a reply withi tory period will ap I, by statute, caus	In no event, however, may n the statutory minimum of to ply and will expire SIX (6) M e the application to become	a reply be timely filed thirty (30) days will be considered time ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status									
1)🖂	Responsive to	communication(s) filed	on 06 Octob	er 2004.					
· · · ·	This action is FINAL . 2b)⊠ This action is non-final.								
-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
5)□ 6)⊠ 7)□	 ✓ Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ✓ Claim(s) 1-9 is/are rejected. ☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 								
Applicati	on Papers								
9) 🗌 🤈	The specification	n is objected to by the	Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
					rance. See 37 CFR 1.85(a).				
		- · · · · · · · · · · · · · · · · · · ·		•	ng(s) is objected to. See 37 C led Office Action or form P	• •			
Priority u	nder 35 U.S.C	. § 119							
a)[All b) So 1. Certified 2. Certified 3. Copies of application	nt is made of a claim forme * c) None of: copies of the priority do copies of the priority do if the certified copies of on from the International detailed Office action	ocuments hat ocuments hat the priority of all Bureau (PC	ve been received. ve been received in locuments have bee CT Rule 17.2(a)).	Application No en received in this National	l Stage			
Attachment	(s)		!						
1) Notice	of References Cit				v Summary (PTO-413)				
3) 🔲 Inform		Patent Drawing Review (PTC tatement(s) (PTO-1449 or PT ——·			o(s)/Mail Date f Informal Patent Application (PT 	O-152)			

Continued Examination Und r 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 6, 2004 has been entered.

Claims 1-9 are pending

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Kasting et al US Patent 5,434,144.

The instant claims are directed to microemulsion compositions comprising (a) an oil comprising squalene or squalane which is capable of dissolving at least 20% triolein and having spreadability factor S^r of greater than 0.3 to less than 2.5, (b) a surfactant, (c) 1-10% C₂-C₁₀ alcohol, (d) optionally water soluble polyalcohols or humectants and (e) water. Claim 9 is directed to methods of applying the claimed composition.

Kasting provides for topical microemulsions comprising 9-15% squalane, 25-50% silicone oil, 15-30% polysorbatan surfactant which is a nonionic surfactant, 7-20% water or other suitable carriers such as ethanol or isopropanal, butandiol which fall within the scope of C₂-C₁₀ alcohols (see col 6, lines 10-19; col 7, lines 61-col 8, line 2; examples 12-19; col 9, lines 40-65). Kasting also uses various therapeutcic and asthetic compounds such as perfumes, antiinflammatories, retinoids or antioxidants that meet the limitations of the instant sensory agents. (see col 9-14). The instantly claimed compositions do not exclude any elements of Kasting's compositions.

Further; since the oil component of the instant claims is limited to Squalane or Squalene as the only component, its functionality of dissolving at least 20% triolein and providing spreadability factor of at least 0.3 is viewed to be an inherent property of Squalane or Squalene. Thus, Kasting's compositions meet all the limitations of the instant claims.

The instant claims 9 is only directed to a single step of administering the claimed composition. Kasting also teaches methods of topical administration to skin which meets the limitations of the instant claim 9. (see col 16, lines 43-50, col 19, lines 1-50). Thus, Kasting anticipates all limitations of the instant claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Forester et al US Patent 5,980,874 in view of Bauer US Patent 6,426,078.

Forester discloses microemulsions comprising a fatty component such as octyl dodecanol in amounts of about 6.5% wt, a non-ionic surfactant in amounts of about 20% wt comprising alkyl glycoside with or without ethylene oxide products of fatty alcohols, co-emulsifier including linear or branched C₈-C₁₀ fatty alcohols, ethanol or isopropanol in amounts of about 2%, a thickening agent or perfume oil that meets the limitations of instant sensory agents, and a humectants such as propylene glycol (see abstract; col 3,

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lines 5-22 and 56-66; col 4, lines 24-67; col 5, lines 32-36; examples 1-5; and claims 1-2, 9-14).

The amounts of co-surfactants used by Forester meet the limitations of the instantly claimed cosurfactant because Forester claims his ratio of nonionic emulsifier/coemulsifier as 2:1 to 15:1 (see Forester's claims 14). Since Forster claims up to 30% nonionic surfactant. The oils used by Forester are the same as those instantly claimed, because the instant specification at page 11 enumerates octyl dodecanol, coco caprylate/caprate and isopropyl myristrate as such oils.

Forester further states that other nonionic surfactants such as addition products of ethylene oxide with fatty alcohols containing 16 to 22 carbon atoms or with partial esters of polyols containing 3 to 6 carbon atoms may be used as the nonionic surfactant because they provide the same function as other nonionic surfactants (see col 3, lines 57-65). Polyoxyalkylenated alcohols encompass the addition products of ethylene oxide with fatty alcohols containing 16 to 22 carbon atoms or with partial esters of polyols containing 3 to 6 carbon atoms or the term polyol ethers. Thus, Forester provides for use of such surfactants. Forester only fails to explicitly use of Squalene or Squalane or polyoxyalkylenated alcohols as the nonionic surfactant in an exemplified product.

Bauer is used to show that for purposes of formulating microemulsions Squalane and Squalene are art recognized functional equivalents to the oils used by Forester (see col 2, lines 5-11). Since the oil component of the instant claims is limited to Squalane or Squalene as the only component, its functionality of dissolving at least 20% triolein and providing spreadability factor of at least 0.3 is viewed to be an inherent property of

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Squalane or Squalene. Thus, such functional limitation in the instant composition claims is met.

Accordingly, absent showing of unexpected results it would have been obvious to one of ordinary skill in the art at the time of invention to substitute the oil components of Forester with other functional art equivalents such as Squalene or Squalane of Bauer because one of ordinary skill in the art would have had a reasonable expectation of success in observing similar functional properties when replacing the oils of Bauer with those of Forester.

Moreover, as recognized by Forester, polyoxyalkylenated alcohols are functional equivalent surfactants to alkyl glycosides. Thus, substituting polyoxyalkylenated alcohols in place of alkyl glycosides of Forester would have been obvious and well within the level of ordinary skill in the art.

Thus even though Forester provides the use of C₈-C₁₀ as suitable cosurfactant in 0.2 to 1.2 parts by weight in the oil phase in ratios of 1:2 to 1:10 with the emulsifier, he fails to explicitly teach that the use of C2-C10 in amounts of about 3 to 10% of his microemulsion.

Nevertheless, absence of showing unexpected results, it would have been obvious to one of ordinary skill in the art at the time of invention to optimize the amount of such fatty alcohols coemulsifiers to improve stability of the microemulsions of Forester.

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C nclusion

No claims are allowed. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahnam Sharareh whose telephone number is 703-306-5400. The examiner can normally be reached on 8:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan, PhD can be reached on 703-308-1877. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1123.

SREENI PADMANABHAN SUPERVISORY PATENT EXAMINER

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